

# Dimethyl tetrathiooxalate

<b>Inchi:</b>	InChI=1S/C4H6S4/c1-7-3(5)4(6)8-2/h1-2H3
<b>InchiKey:</b>	JPEQRYNXCNLOAJ-UHFFFAOYSA-N
<b>Formula:</b>	C4H6S4
<b>SMILES:</b>	CSC(=S)C(=S)SC
<b>Mol. weight [g/mol]:</b>	182.35
<b>CAS:</b>	61485-47-0

## Physical Properties

Property code	Value	Unit	Source
gf	283.16	kJ/mol	Joback Method
hf	250.85	kJ/mol	Joback Method
hfus	23.58	kJ/mol	Joback Method
hvap	51.59	kJ/mol	Joback Method
ie	8.20	eV	NIST Webbook
log10ws	-2.97		Crippen Method
logp	2.367		Crippen Method
mcvol	124.020	ml/mol	McGowan Method
pc	5220.69	kPa	Joback Method
tb	568.56	K	Joback Method
tc	848.74	K	Joback Method
tf	272.18	K	Joback Method
vc	0.440	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	219.60	J/mol×K	568.56	Joback Method
cpg	226.93	J/mol×K	615.26	Joback Method
cpg	233.48	J/mol×K	661.95	Joback Method
cpg	239.37	J/mol×K	708.65	Joback Method
cpg	244.73	J/mol×K	755.35	Joback Method
cpg	249.66	J/mol×K	802.04	Joback Method
cpg	254.30	J/mol×K	848.74	Joback Method

# Sources

<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C61485470&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C61485470&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>ie:</b>	Ionization energy
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/27-455-7/Dimethyl-tetrathiooxalate.pdf>

Generated by Cheméo on 2024-05-02 02:12:30.083393853 +0000 UTC m=+16905199.003971168.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.